FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE

ATTY, DOCKET NO. ELL001US2 CON Client/Matter No. 82236.0002.002

FILING DATE: Notice assigned 3

SERIAL NO.: Not yet accorded

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT: Robert C. Herrmann and Steven Landin

GROUP: Not yet 30 Corded

## U.S. PATENT DOCUMENTS

| NUMBER 3,453,104 3,471,028 3,570,059 3,746,642 3,751,271 3,788,486 3,897,221 3,923,653 | DATE  July 1, 1969  October 7, 1969  March 16, 1971  July 17, 1973  August 7, 1973  January 29, 1974  July 29, 1975               | PATENTEE  De Marchi, et al.  Miller, et al.  Mott, L.  Bergstrom, T.  Kimura, et al.  Bergstrom, T.   | CLASS 75 210 18 210 106 210  | 206<br>457<br>8<br>446<br>40   | APPROPRIATE  November 28, 1967  August 21, 1967  July 24, 1969  April, 20, 1971  May 11, 1971   |
|--|---|---|--|--|---|
| 3,471,028<br>3,570,059<br>3,746,642<br>3,751,271<br>3,788,486<br>3,897,221             | October 7, 1969  March 16, 1971  July 17, 1973  August 7, 1973  January 29, 1974  | Miller, et al.  Mott, L.  Bergstrom, T.  Kimura, et al.   | 210<br>18<br>210<br>106  | 457<br>8<br>446<br>40  | August 21, 1967  July 24, 1969  April, 20, 1971  May 11, 1971   |
| 3,570,059<br>3,746,642<br>3,751,271<br>3,788,486<br>3,897,221                          | March 16, 1971  July 17, 1973  August 7, 1973  January 29, 1974   | Mott, L.  Bergstrom, T.  Kimura, et al.   | 18<br>210<br>106   | 8<br>446<br>40   | July 24, 1969 April, 20, 1971 May 11, 1971  |
| 3,746,642<br>3,751,271<br>3,788,486<br>3,897,221                                       | July 17, 1973<br>August 7, 1973<br>January 29, 1974   | Bergstrom, T. Kimura, et al.  | 210  | 446<br>40  | April, 20, 1971<br>May 11, 1971   |
| 3,751,271<br>3,788,486<br>3,897,221  | August 7, 1973<br>January 29, 1974  | Kimura, et al.  | 106  | 40   | May 11, 1971  |
| 3,788,486<br>3,897,221   | January 29, 1974  |   |  |  |   |
| 3,897,221  |   | Bergstrom, T.   | 210  | 400  |   |
|  | July 29, 1975   |   | 1 1  | 496  | September 30, 197   |
| 3 923 653  | 1,,   | Salyer, et al.  | 29   | 191.2  | September 30, 197   |
| 0,020,000  | December 2, 1975  | Lavins, Jr., P.   | 210  | 71   | September 27, 197   |
| 3,980,445  | September 14, 1976  | Aleshin, et al.   | 29   | 182  | July 3, 1974  |
| 4,014,680  | March 29, 1977  | Reen, O.  | 75   | .5 BA  | June 25, 1976   |
| 4,069,157  | January 17, 1978  | Hoover, et al.  | 210  | 433 M  | November 20, 1975   |
| 4,082,834  | April 4, 1978   | Grossman, et al.  | 423  | 210  | December 18, 1975   |
| 4,301,012  | November 17, 1981   | Puckett, D.   | 210  | 457  | April 25, 1979  |
| 4,407,656  | October 4, 1983   | Hofer, F.   | 445  | 10   | May 8, 1981   |
| 4,407,657  | October 4, 1983   | Fransen, J.   | 445  | 17   | May 8, 1981   |
| 4,435,483  | March 6, 1984   | Ahslund, et al.   | 428  | 566  | February 8, 1982  |
| 4,552,719  | November 12, 1985   | Morimoto, et al.  | 419  | 2  | August 31, 1983   |
| 4,562,039  | December 31, 1985   | Koehler, P.   | 419  | 2  | June 27, 1984   |
| 4,613,369  | September 23, 1986  | Koehler, P.   | 75   | 246  | September 30, 198   |
| 4,708,741  | November 24, 1987   | Amaya, G.   | 75   | 251  | June 13, 1986   |
| 4,717,455  | January 5, 1988   | Textor, et al.  | 204  | 33   | November 18, 1986   |
| 4,738,874  | April 19, 1988  | Berardo, et al.   | 427  | 244  | December 26, 1985   |
|  | 3,980,445 4,014,680 4,069,157 4,082,834 4,301,012 4,407,656 4,407,657 4,435,483 4,552,719 4,562,039 4,613,369 4,708,741 4,717,455 | 3,980,445 September 14, 1976 4,014,680 March 29, 1977 4,069,157 January 17, 1978 4,082,834 April 4, 1978 4,301,012 November 17, 1981 4,407,656 October 4, 1983 4,407,657 October 4, 1983 4,435,483 March 6, 1984 4,552,719 November 12, 1985 4,562,039 December 31, 1985 4,613,369 September 23, 1986 4,708,741 November 24, 1987 4,717,455 January 5, 1988 4,738,874 April 19,1988 | 3,980,445 September 14, 1976 Aleshin, et al. 4,014,680 March 29, 1977 Reen, O. 4,069,157 January 17, 1978 Hoover, et al. 4,082,834 April 4, 1978 Grossman, et al. 4,301,012 November 17, 1981 Puckett, D. 4,407,656 October 4, 1983 Hofer, F. 4,407,657 October 4, 1983 Fransen, J. 4,435,483 March 6, 1984 Ahslund, et al. 4,552,719 November 12, 1985 Morimoto, et al. 4,562,039 December 31, 1985 Koehler, P. 4,613,369 September 23, 1986 Koehler, P. 4,708,741 November 24, 1987 Amaya, G. 4,717,455 January 5, 1988 Textor, et al. 4,738,874 April 19,1988 Berardo, et al. | 3,980,445 September 14, 1976 Aleshin, et al. 29 4,014,680 March 29, 1977 Reen, O. 75 4,069,157 January 17, 1978 Hoover, et al. 210 4,082,834 April 4, 1978 Grossman, et al. 423 4,301,012 November 17, 1981 Puckett, D. 210 4,407,656 October 4, 1983 Hofer, F. 445 4,407,657 October 4, 1983 Fransen, J. 445 4,435,483 March 6, 1984 Ahslund, et al. 428 4,552,719 November 12, 1985 Morimoto, et al. 419 4,562,039 December 31, 1985 Koehler, P. 419 4,613,369 September 23, 1986 Koehler, P. 75 4,708,741 November 24, 1987 Amaya, G. 75 4,717,455 January 5, 1988 Textor, et al. 204 4,738,874 April 19,1988 Berardo, et al. 427 DATE COM- | 3,980,445 September 14, 1976 Aleshin, et al. 29 182 4,014,680 March 29, 1977 Reen, O. 75 .5 BA 4,069,157 January 17, 1978 Hoover, et al. 210 433 M 4,082,834 April 4, 1978 Grossman, et al. 423 210 4,301,012 November 17, 1981 Puckett, D. 210 457 4,407,656 October 4, 1983 Hofer, F. 445 10 4,407,657 October 4, 1983 Fransen, J. 445 17 4,435,483 March 6, 1984 Ahslund, et al. 428 566 4,552,719 November 12, 1985 Morimoto, et al. 419 2 4,613,369 September 23, 1986 Koehler, P. 419 2 4,613,369 September 24, 1987 Amaya, G. 75 251 4,717,455 January 5, 1988 Textor, et al. 204 33 4,738,874 April 19,1988 Berardo, et al. 427 244 DATE CONSIDERED |

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FILING DATE: Not yet,

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| EXAMINER         | PATENT    | ISSUE             |                   |       |          | FILING DATE       |
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| INITIAL          | NUMBER    | DATE              | PATENTEE          | CLASS | SUBCLASS | APPROPRIATE       |
| AF               | 4,758,272 | July 19, 1988     | Pierotti, et al.  | 75    | 246      | May 27, 1987      |
|                  | 4,762,619 | August 9, 1988    | Gaddis, et al.    | 210   | 639      | August 19, 1986   |
|                  | 4,797,211 | January 10, 1989  | Ehrfeld, et al.   | 210   | 321.84   | December 24, 198  |
|                  | 4,801,379 | January 31, 1989  | Ehrsam, et al.    | 210   | 498      | July 15, 1987     |
|                  | 4,812,236 | March 14, 1989    | Ehrsam, C.        | 210   | 490      | October 16, 1987  |
|                  | 4,826,642 | May 2, 1989       | Degen, et al.     | 264   | 45.3     | June 8, 1988      |
|                  | 4,834,876 | May 30, 1989      | Walker, N.        | 210   | 185      | March 14, 1988    |
|                  | 4,876,013 | October 24, 1989  | Shmidt, et al.    | 210   | 650      | February 26, 1988 |
|                  | 4,888,114 | December 19, 1989 | Gaddis, et al.    | 210   | 500.25   | February 10, 1989 |
|                  | 4,935,139 | June 19, 1990     | Davidson, et al.  | 210   | 490      | May 22, 1989      |
|                  | 4,963,261 | October 16, 1990  | Witkowski, et al. | 210   | 490      | August 28, 1989   |
|                  | 5,114,447 | May 19, 1992      | Davis, C.         | 55    | 485      | March 12, 1991    |
|                  | 5,154,815 | October 13, 1992  | O'Neill, J.       | 205   | 75       | October 23, 1991  |
|                  | 5,158,586 | October 27, 1992  | Layton, H.        | 55    | 497      | January 6, 1992   |
|                  | 5,188,734 | February 23, 1993 | Zepf, R.          | 210   | 490      | February 21, 1992 |
|                  | 5,194,200 | March 16, 1993    | Anderson, et al.  | 264   | 56       | October 8, 1991   |
|                  | 5,196,120 | March 23, 1993    | White, L.         | 210   | 504      | April 2, 1992     |
| /                | 5,198,112 | March 30, 1993    | Martin, et al.    | 210   | 490      | January 12, 1990  |
| 1                | 5,208,190 | May 4, 1993       | Anderson, et al.  | 501   | 12       | October 8, 1991   |
| AT               | 5,215,724 | June 1, 1993      | Haerle, H.        | 422   | 180      | September 5, 199  |
| EXAMINER () June |           |                   | DATE CONSIDERED   |       |          |                   |

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## **U.S. PATENT DOCUMENTS**

| EXAMINER | PATENT    | ISSUE             |                  |       |          | FILING DATE<br>IF |
|----------|-----------|-------------------|------------------|-------|----------|-------------------|
| INITIAL  | NUMBER    | DATE              | PATENTEE         | CLASS | SUBCLASS | APPROPRIATE       |
| AC       | 5,238,477 | August 24, 1993   | Layton, H.       | 55    | 497      | September 21, 199 |
| 1        | 5,238,613 | August 24, 1993   | Anderson, D.     | 264   | 22       | February 12, 1992 |
|          | 5,250,184 | October 5, 1993   | Maier, W.        | 210   | 653      | May 13, 1992      |
|          | 5,262,198 | November 16, 1993 | Wu, et al.       | 427   | 249      | April 8, 1991     |
|          | 5,262,199 | November 16, 1993 | Desu, et al.     | 427   | 255.1    | April 17, 1992    |
|          | 5,277,819 | January 11, 1994  | Abrams, H.       | 210   | 636      | June 3, 1992      |
|          | 5,308,533 | May 3, 1994       | Hotaling, et al. | 252   | 181.6    | November 12, 199  |
|          | 5,332,597 | July 26, 1994     | Carolan, et al.  | 427   | 243      | November 9, 1992  |
|          | 5,364,586 | November 15, 1994 | Trusov, et al.   | 419   | 2        | August, 17, 1993  |
|          | 5,378,426 | January 3, 1995   | Geibel, et al.   | 419   | 2        | October 21, 1992  |
|          | 5,387,339 | February 7, 1995  | Lee, et al.      | 210   | 326      | December 17, 199  |
|          | 5,456,740 | October 10, 1995  | Snow, et al.     | 96    | 11       | June 22, 1994     |
|          | 5,487,771 | January 30, 1996  | Zeller, R.       | 55    | 523      | July 27, 1994     |
|          | 5,279,737 | January 18, 1994  | Sekhar, et al.   | 210   | 490      | June 3, 1993      |
|          | 5,405,529 | April 11, 1995    | Shimai, et al.   | 210   | 496      | July 19, 1993     |
|          | 4,980,062 | December 25, 1990 | Block            | 210   | 490      | August 2, 1987    |
|          | 5,589,081 | December 31, 1996 | Harris           | 210   | 804      | January 11, 1996  |
|          | 3,241,681 | March 22, 1966    | D.B. Pall        | 210   | 493      | February 9, 1959  |
| V        | 2,457,051 | December 21, 1948 | C.C.S. Le Clair  | 29    | 148      | May 25, 1945      |
| AK       | 3,111,396 | November 19, 1963 | B.B. Ball        | 25    | 156      | December 14, 196  |

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|  | <br>DOCUMENT<br>NUMBER | PUBLISHED<br>DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |
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|  |                        |                   |         |       |          |             |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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